AMENDMENTS TO THE CLAIMS:

1. (Currently Amended): Apparatus for providing access to a functioning vascular system of a patient, said apparatus comprising:

a main body having sidewalls defining an interior region and, an exterior region, and a bottom end, and a top end;

a base being formed at said the bottom end of said main body, and having securing means being configured on said base so as thereon configured for to allow attachment to the vascular system of the patient and configured for formation of a seal between said base and the functioning vascular system of the patient, and said base containing an opening therein, the opening configured being configurable to provide a passageway from said the interior region of said main body to the functioning vascular system of the patient, and said opening of said base being selectively adjustable in attachment to the vascular system of the patient between a first configuration and a second configuration, said first configuration providing said opening with a first given cross-sectional area, said second configuration providing said opening with a second given cross-sectional area, and the second given cross-sectional area being larger than said first given cross-sectional area; and

a cover being formed at said attached to the top end of said main body, wherein said cover and configured to provides a barrier between said the interior region and said the exterior region at said the top end of said main body.

- 2. (Original): Apparatus according to claim 1 wherein said sidewalls of said main body are tapered inwardly from said top end to said bottom end.
- 3. (Currently Amended): Apparatus according to claim 1 wherein said the interior region comprises saline so as to provide an air-free environment therein.
- 4. (Currently Amended): Apparatus according to claim 1 wherein said the interior region comprises carbon dioxide so as to provide an air-free environment therein.
- 5. (Currently Amended): Apparatus according to claim 1 wherein said the interior region comprises a solution of saline and carbon dioxide so as to provide an air-free environment therein.

- 6. (Original): Apparatus according to claim 1 wherein said main body comprises a flexible material.
- 7. (Original): Apparatus according to claim 6 wherein said flexible material comprises urethane.
- 8. (Original): Apparatus according to claim 1 wherein said cover is integral with said main body.
- 9. (Currently Amended): Apparatus according to claim 1 wherein said the top end of said main body includes comprises a mount, wherein and said cover is removably attachable to said mount on said main body.
- 10. (Original): Apparatus according to claim 9 wherein said mount is formed of a substantially rigid material.
- 11. (Currently Amended): Apparatus according to claim 10 wherein said the material comprises polycarbonate.
- 12. (Currently Amended): Apparatus according to claim 1 wherein said the passageway in said base comprises an opening

formed therein prior to attachment to the functioning vascular system of the patient.

- 13. (Currently Amended): Apparatus according to claim 1 wherein said the passageway in said base comprises an opening formed therein after said base is attached to the functioning vascular system of the patient.
- 14. (Currently Amended): Apparatus according to claim 1 wherein said the securing means comprises a stitching cuff extending around the a perimeter of said base.
- 15. (Original): Apparatus according to claim 1 wherein said cover comprises a port therein, said port being configured to permit access between said exterior region and said interior region of said main body.
- 16. (Currently Amended): Apparatus according to claim $\frac{15}{1}$ wherein $\frac{1}{1}$ wherein $\frac{1}{1}$ wherein $\frac{1}{1}$
- 17. (Currently Amended): Apparatus according to claim $\frac{15}{1}$ wherein $\frac{1}{1}$ wherein $\frac{1}{1}$ wherein $\frac{1}{1}$

- 18. (Currently Amended): Apparatus according to claim $\frac{15}{2}$ wherein $\frac{1}{2}$ wherein $\frac{1}{2}$ wherein $\frac{1}{2}$
- 19. (Original): Apparatus according to claim 18 wherein said instrument passageway comprises a penetrable seal.
- 20. (Original): Apparatus according to claim 1 wherein said cover comprises a substantially rigid material.
- 21. (Original): Apparatus according to claim 20 wherein said substantially rigid material comprises polycarbonate.
- 22. (Currently Amended): Apparatus according to claim 1 wherein said the sealing means comprises a vacuum seal.
- 23. (Currently Amended): Apparatus according to claim 1 wherein said sealing the securing means comprises hooks.
- 24. (Currently Amended): Apparatus according to claim 1 wherein said scaling the securing means comprises an adhesive material.

- 25. (Currently Amended): Apparatus according to claim 1 wherein said base comprises a blade guide for forming said the passageway from said the interior region of said main body to the functioning vascular system.
- wherein said base is selectively configurable between a first configuration and a second configuration, further and wherein said the passageway from said the interior region of said main body to the functioning vascular system of the patient is substantially closed in said the first configuration and said the passageway from said the interior region of said main body to the functioning vascular system of said main body to the functioning vascular system of the patient is substantially open in said the second configuration.
- 27. (Currently Amended): Apparatus according to claim 26 wherein said <u>main</u> body is selectively configured between said <u>the</u> first configuration and <u>said</u> the second configuration by squeezing a pair of opposed ends of said <u>main</u> body toward one another.

28. (Withdrawn): A method for providing access to a functioning vascular system of a patient, said method comprising:

providing apparatus for providing access to a functioning vascular system of a patient, said apparatus comprising:

a main body having sidewalls defining an interior region and an exterior region, and a bottom end and a top end;

a base being formed at said bottom end of said main body, securing means being configured on said base so as to allow attachment and formation of a seal between said base and the functioning vascular system of the patient, and said base being configurable to provide a passageway from said interior region of said main body to the functioning vascular system of the patient; and

a cover being formed at said top end of said main body, wherein said cover provides a barrier between said interior region and said exterior region at said top end of said main body;

attaching said securing means of said base to a selected portion of the functioning vascular system of the patient;

forming an incision in said selected portion of the vascular system of the patient within an interior boundary of said base in attachment thereto;

passing an instrument through said incision formed in said selected portion of the vascular system of the patient;

closing said incision in said selected portion of the vascular system of the patient within said interior boundary of said base in attachment thereto; and

removing at least a portion of said apparatus from the functioning vascular system of a patient.

- 29. (Withdrawn): A method according to claim 28 further comprising the step of forming said passageway in said base from said interior region of said main body to the functioning vascular system of the patient prior to the step of attaching said securing means of said base to said selected portion of the functioning vascular system of the patient.
- 30. (Withdrawn): A method according to claim 28 further comprising the step of forming said passageway in said base from said interior region of said main body to the functioning vascular system of the patient subsequent to the step of attaching said securing means of said base to the selected portion of the functioning vascular system of the patient.

- 31. (Withdrawn): A method according to claim 28 further comprising the step of configuring said base to selectively open said incision formed in said selected portion of the vascular system of the patient prior to the step of passing an instrument therethrough.
- 32. (Withdrawn): A method according to claim 28 further comprising the step of placing a pursestring suture at said selected portion of the functioning vascular system of he patient prior to the step of attaching said securing means of said base thereto.
- 33. (Withdrawn): A method according to claim 32 further comprising the step of pulling said pursestring so as to reduce the size of said incision prior to the step of closing said incision.
- 34. (Withdrawn): A method according to claim 28 wherein the step of closing said incision comprises placing sutures thereacross.

- 35. (Withdrawn): A method according to claim 28 wherein the step of closing said incision comprises placing a closing mechanism thereacross.
- 36. (Withdrawn): A method according to claim 35 wherein said closing mechanism comprises one selected from a group consisting of wire, staples and an adhesive.
- 37. (Withdrawn): A method according to claim 28 wherein the step of removing at least a portion of said apparatus further comprises over-stitching a remaining portion of said apparatus surrounding said incision.
- 38. (Withdrawn): A method according to claim 28 wherein the entire portion of said apparatus is removed from the patient.